



Certification Report

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IT Product (TOE)

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| Reception Date of Application (Reception Number) | 2024-03-26 (ITC-4879) |
| Certification Identification | JISEC-C0824 |
| Product Name | FUJIFILM Apeos C4030 / C3530 models with Copy, Print, Fax, Scan and Overwrite Storage |
| Version and Release Numbers | Controller ROM Ver. 21.26.12 |
| Product Manufacturer | FUJIFILM Business Innovation Corp. |
| Conformance of Functionality | PP conformant functionality, CC Part 2 Extended |
| Protection Profile Conformance | Protection Profile for Hardcopy Devices 1.0 dated September 10, 2015 (Certification Identification: JISEC-C0553) |
| Name of IT Security Evaluation Facility | Information Technology Security Center, Evaluation Department |

This is to report that the evaluation result for the above TOE has been certified as follows.

2024-09-04

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IT Security Technology Evaluation Department
IT Security Center

Evaluation Criteria, etc.: This TOE is evaluated in accordance with the following standards prescribed in the "IT Security Evaluation and Certification Scheme Document."

- Common Criteria for Information Technology Security Evaluation
Version 3.1 Release 5
- Common Methodology for Information Technology Security Evaluation
Version 3.1 Release 5

Evaluation Result: Pass

"FUJIFILM Apeos C4030 / C3530 models with Copy, Print, Fax, Scan and Overwrite Storage, Version Controller ROM Ver. 21.26.12" has been evaluated based on the standards required, in accordance with the provisions of the "Requirements for IT Security Certification" by Information-technology Promotion Agency, Japan, and has met the specified assurance requirements.

Notice:

This document is the English translation version of the Certification Report published by the Certification Body of Japan Information Technology Security Evaluation and Certification Scheme.

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1. Executive Summary

This Certification Report describes the content of the certification result in relation to IT Security Evaluation of "FUJIFILM Apeos C4030 / C3530 models with Copy, Print, Fax, Scan and Overwrite Storage, Version Controller ROM Ver. 21.26.12" (hereinafter referred to as the "TOE") developed by FUJIFILM Business Innovation Corp., and the evaluation of the TOE was completed on 2024-08-19 by Information Technology Security Center, Evaluation Department (hereinafter referred to as the "Evaluation Facility"). It is intended to report to the sponsor, FUJIFILM Business Innovation Corp., and provide security information to procurement entities and consumers who are interested in the TOE.

Readers of this Certification Report are advised to read the Security Target (hereinafter referred to as the "ST") described in Chapter 10. Especially, details of security functional requirements, assurance requirements and rationale for sufficiency of these requirements of the TOE are described in the ST.

This Certification Report assumes procurement entities who purchase the TOE to be readers. Note that the Certification Report presents the certification result based on assurance requirements to which the TOE conforms, and does not guarantee an individual IT product itself.

1.1 Product Overview

An overview of the TOE functions and operational conditions is described below. Refer to Chapter 2 and subsequent chapters for details.

1.1.1 Protection Profile or Assurance Package

The TOE conforms to the following Protection Profile [14][15] (hereinafter referred to as the "Conformance PP").

Protection Profile for Hardcopy Devices 1.0 dated September 10, 2015
(Certification Identification: JISEC-C0553)

1.1.2 TOE and Security Functionality

The TOE is a multifunction device (hereinafter referred to as "MFD"), which has functions such as copy, scan, print, fax, and document storage and retrieval.

The TOE provides security functions required by the Conformance PP to prevent the document data processed by the MFD and the setting data etc. affecting security from unauthorized disclosure and alteration.

For these security functions, the validity of the design policy and the accuracy of the implementation were evaluated within the scope of the assurance requirements of the Conformance PP.

Threats and assumptions assumed for the TOE are described in the following sections.

1.1.2.1 Threats and Security Objectives

The following threats are assumed for the TOE.

There are threats that user document data and data affecting security functions, which are assets to be protected by the TOE, may be disclosed or altered by unauthorized operation of the TOE or unauthorized access to the network to which the TOE is connected.

There are also threats that security functions of the TOE may be compromised by the failure of the TOE itself or installation of unauthorized software.

The TOE provides security functions required by the Conformance PP such as identification and authentication, access control, encryption, and digital signature to counter these threats.

1.1.2.2 Configuration and Assumptions

The TOE is assumed to be operated under the following configuration and assumptions.

The TOE is assumed to be operated in an environment where unauthorized physical access to the TOE is restricted and connected to a LAN separated from the Internet.

The setting, administration and maintenance of the TOE must be performed in accordance with the guidance documents by a trusted administrator. Users of the TOE must have been trained in order to use the TOE securely.

1.1.3 Disclaimers

The following operation is not ensured by this evaluation:

- An environment different from that described in "4.2 Environmental Assumptions"
- TOE with settings different from those described in "7.5 Evaluated Configuration"

1.2 Conduct of Evaluation

Under the IT Security Evaluation and Certification Scheme that the Certification Body operates, the Evaluation Facility conducted IT security evaluation and completed in 2024-08, based on functional requirements and assurance requirements of the TOE according to the publicized documents "IT Security Evaluation and Certification Scheme Document"[1], "Requirements for IT Security Certification"[2], and "Requirements for Approval of IT Security Evaluation Facility"[3] provided by the Certification Body.

1.3 Certification

The Certification Body verified the Evaluation Technical Report [13] and the Observation Reports prepared by the Evaluation Facility as well as evaluation documentation, and confirmed that the TOE evaluation was conducted in accordance with the prescribed procedure. The certification oversight reviews were prepared for those concerns found in the certification process. The Certification Body confirmed that those concerns pointed out by the Certification Body were fully resolved, and that the TOE evaluation had been appropriately conducted in accordance with the CC ([4][5][6] or [7][8][9]) and the CEM (either of [10][11]). The Certification Body prepared this Certification Report based on the Evaluation Technical Report and fully concluded certification activities.

2. Identification

The TOE is identified as follows:

TOE Name: FUJIFILM Apeos C4030 / C3530 models
with Copy, Print, Fax, Scan and Overwrite Storage

TOE Version: Controller ROM Ver. 21.26.12

The TOE is a product for European, American, Middle Eastern, African, and South Asia market.

Users can verify that a product is the TOE, which is evaluated and certified, by the following means.

Users confirm the following information displayed on the main unit and the control panel of the TOE as described in the guidance document.

- Vendor Name: "FUJIFILM"
- Model name: One of the following:
 - Apeos C4030, Apeos C3530
- Function:
 - Button for copy, print, fax and scan function is displayed.
 - Overwrite storage function is displayed.
- Version: Version of Controller ROM

3. Security Policy

The TOE provides the basic functions of the MFD such as copy, scan, print, fax, and document storage and retrieval. It has the functionality to store the user document data in the TOE and to communicate with user terminals and various servers via a network.

The TOE provides security functions that satisfy the requirements of the Conformance PP, to protect the document data processed by the MFD and setting data etc. affecting security.

As the background of the security functions provided by the TOE, user roles, assets, threats, and organizational security policies assumed for the TOE are described in following Section 3.1 to 3.4. Details of the security functions of the TOE are described in Chapter 5.

3.1 Users

The user roles assumed for the TOE are shown in Table 3-1.

Table 3-1 User Roles

| Designation | Definition |
|---------------|---|
| Normal User | A User who has been identified and authenticated and does not have an administrative role |
| Administrator | A User who has been identified and authenticated and has an administrative role |

Note that "administrator" is called as "system administrator" in the TOE, so the terms "administrator" and "system administrator" have the same meaning in this report.

3.2 Assets

The assets assumed to be protected by the TOE are shown in Table 3-2, Table 3-3 and Table 3-4. There are two categories of the assets, User Data and TSF Data, as shown in Table 3-2. Furthermore, User Data is classified as shown in Table 3-3 and TSF Data is as shown in Table 3-4.

Table 3-2 Assets

| Designation | Category | Definition |
|-------------|-----------|--|
| D.USER | User Data | Data created by and for Users that do not affect the operation of the TSF |
| D.TSF | TSF Data | Data created by and for the TOE that might affect the operation of the TSF |

Table 3-3 Assets (User Data)

| Designation | Type | Definition |
|-------------|--------------------|--|
| D.USER.DOC | User Document Data | Information contained in a User's Document, in electronic or hardcopy form |
| D.USER.JOB | User Job Data | Information related to a User's Document or Document Processing Job |

Table 3-4 Assets (TSF Data)

| Designation | Type | Definition |
|-------------|-----------------------|---|
| D.TSF.PROT | Protected TSF Data | TSF Data for which alteration by a User who is neither the data owner nor in an Administrator role might affect the security of the TOE, but for which disclosure is acceptable |
| D.TSF.CONF | Confidential TSF Data | TSF Data for which either disclosure or alteration by a User who is neither the data owner nor in an Administrator role might affect the security of the TOE |

3.3 Threats

The threats assumed for the TOE are shown in Table 3-5.

Table 3-5 Threats

| Designation | Definition |
|-----------------------|--|
| T.UNAUTHORIZED_ACCESS | An attacker may access (read, modify, or delete) User Document Data or change (modify or delete) User Job Data in the TOE through one of the TOE's interfaces. |
| T.TSF_COMPROMISE | An attacker may gain Unauthorized Access to TSF Data in the TOE through one of the TOE's interfaces. |
| T.TSF_FAILURE | A malfunction of the TSF may cause loss of security if the TOE is permitted to operate. |
| T.UNAUTHORIZED_UPDATE | An attacker may cause the installation of unauthorized software on the TOE. |
| T.NET_COMPROMISE | An attacker may access data in transit or otherwise compromise the security of the TOE by monitoring or manipulating network communication. |

3.4 Organizational Security Policies

The organizational security policies required for the TOE are shown in Table 3-6.

Table 3-6 Organizational Security Policies

| Designation | Definition |
|--------------------|--|
| P.AUTHORIZATION | Users must be authorized before performing Document Processing and administrative functions. |
| P.AUDIT | Security-relevant activities must be audited and the log of such actions must be protected and transmitted to an External IT Entity. |
| P.COMMS_PROTECTION | The TOE must be able to identify itself to other devices on the LAN. |

| | |
|----------------------|---|
| P.STORAGE_ENCRYPTION | If the TOE stores User Document Data or Confidential TSF Data on Field-Replaceable Nonvolatile Storage Devices, it will encrypt such data on those devices. |
| P.KEY_MATERIAL | Cleartext keys, submasks, random numbers, or any other values that contribute to the creation of encryption keys for Field-Replaceable Nonvolatile Storage of User Document Data or Confidential TSF Data must be protected from unauthorized access and must not be stored on that storage device. |
| P.FAX_FLOW | If the TOE provides a PSTN fax function, it will ensure separation between the PSTN fax line and the LAN. |
| P.IMAGE_OVERWRITE | Upon completion or cancellation of a Document Processing job, the TOE shall overwrite residual image data from its Field-Replaceable Nonvolatile Storage Devices. |

4. Assumptions and Clarification of Scope

This chapter describes the assumptions and the operational environment to operate the TOE as useful information for the assumed readers to determine whether to use the TOE.

4.1 Usage Assumptions

Table 4-1 shows assumptions to operate the TOE. The effective performances of the TOE security functions are not assured unless these assumptions are satisfied.

Table 4-1 Assumptions

| Designation | Definition |
|-----------------|--|
| A.PHYSICAL | Physical security, commensurate with the value of the TOE and the data it stores or processes, is assumed to be provided by the environment. |
| A.NETWORK | The Operational Environment is assumed to protect the TOE from direct, public access to its LAN interface. |
| A.TRUSTED_ADMIN | TOE Administrators are trusted to administer the TOE according to site security policies. |
| A.TRAINED_USERS | Authorized Users are trained to use the TOE according to site security policies. |

4.2 Environmental Assumptions

Figure 4-1 shows the operational environment assumed for the TOE. The TOE is installed in a general office and used in an environment connected to the public telephone line and a LAN which is the internal network of the organization. Users operate the control panel of the TOE or a client PC (i.e. General User Client or System Administrator Client) connected to the LAN to use the TOE.

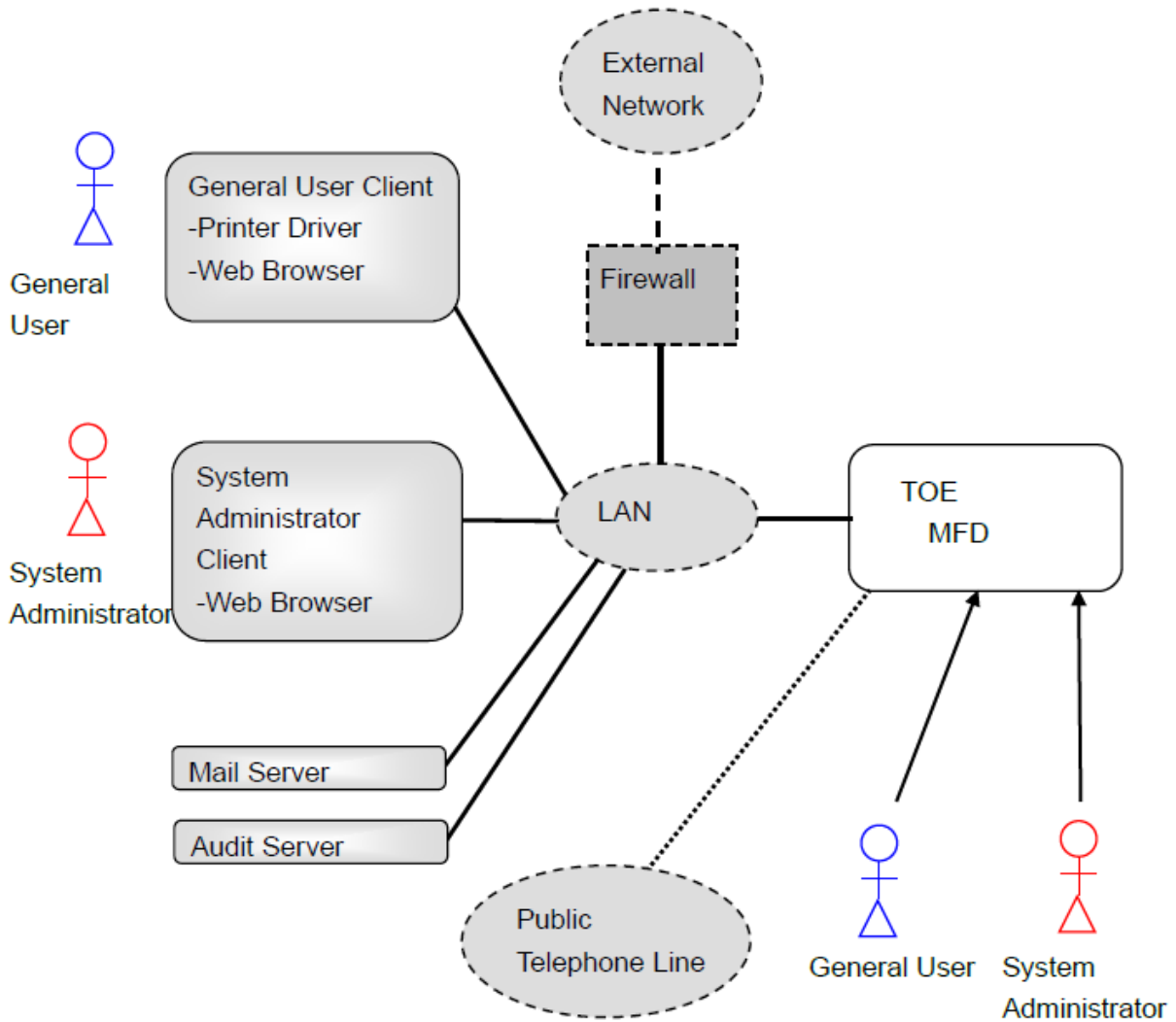


Figure 4-1 Operational Environment of the TOE

The operational environment of the TOE consists of the following components.

1) General User Client

A general user client is a general-purpose PC for general users. A web browser and the printer driver for the TOE are required. The following software was used in this evaluation:

- OS: Windows 10, Windows 11
- Web browser: Microsoft Edge, FireFox
- Printer driver (Provided by FUJIFILM Business Innovation Corp.)
PCL6 Print Driver Version 7.0.0

2) System Administrator Client

A system administrator client is a general-purpose PC for system administrators. A web browser is required. The following software was used in this evaluation:

- OS: Windows 10, Windows 11

- Web browser: Microsoft Edge, FireFox

3) Mail Server

A mail server is used to send user document data from the TOE. Software supporting the SMTP protocol with TLS 1.2 is required. The following software was used in this evaluation:

- OS: Cent OS 7.9
- Mail server: Postfix version 2.10.1

4) Audit Server

An audit server is a server to store audit logs generated by the TOE. Software supporting the Syslog protocol with TLS 1.2 is required. The following software was used in this evaluation:

- OS: Cent OS 7.9
- Audit server: rsyslog 8.24.0

It should be noted that the reliability of the hardware and the software other than the TOE shown in this configuration is outside the scope of this evaluation. Those are assumed to be trustworthy.

4.3 Clarification of Scope

The functions provided by the TOE or ensured by this evaluation have the following restrictions.

1) Servers and client PCs

System administrators are responsible for operating servers and client PCs cooperating with the TOE securely.

5. Architectural Information

This chapter explains the scope and the main components of the TOE.

5.1 TOE Boundary and Components

The TOE is the entire MFD with the necessary option.

The functions provided by the TOE consist of basic functions of the MFD and security functions. Regarding the basic functions of the MFD such as copy, scan, print, fax, and document storage and retrieval, please refer to Chapter 11. The security functions of the TOE are described below.

1) Identification and Authentication

This function is a function to identify and authenticate users of the TOE with their IDs and passwords. This function is applied when the TOE is used as follows:

- When users use the TOE from the control panel of MFD, or Web browser of client PC, or Printer driver of client PC.

This function has the following functionality to reinforce the identification and authentication.

- Restriction on the minimum password length.
- Suspending the identification and authentication on continuous unsuccessful authentication attempts.
- Termination of the session if there is no operation for a certain time after the successful authentication.

2) Access Control

This function is a function to control the access to the user data when users operate the basic functions of the MFD on them. The access control is performed based on the owner information of the user data and on the user's identification information and role.

3) Data Encryption

This function is a function to encrypt the data stored in the TOE and the communication data. The encryption of the stored data uses AES CBC mode with a 256-bit key. The encryption of communication data is used in the encryption communication protocol described in "4) Trusted Communication. "

Encryption keys are generated using a random bit generator with enough entropy that is difficult to guess.

4) Trusted Communication

This function is a function to protect communication data between the TOE and IT devices using encryption communication protocol, TLS 1.2.

5) Security Management

This function is a function to restrict the setting, etc. of the security functions to system administrators. However, general users can change their passwords.

6) Security Audit

This function is a function to generate audit logs on audit events relevant to the security functions and send them to an audit server.

Generated audit logs are also stored in the TOE. When the stored logs exceed the storage capacity, the oldest one is deleted to store a new audit log. Only administrators can download the stored audit logs from the web browser of client PC.

7) Trusted Operation

This function is a function to verify the check sum of the firmware and the correct operation of the random bit generation at start-up of the TOE, and to verify the digital signature of new firmware when the firmware is updated.

8) PSTN Fax-Network Separation

This function is a function to separate the Public Switched Telephone Network (PSTN) and the LAN. It prevents sending and receiving data from the PSTN to the LAN via the TOE.

9) Overwrite Storage

This function is a function to overwrite the area of the hard disk drive in the TOE where user document data are stored when those data are deleted by completion of the basic function of the TOE or by deletion operation by users.

5.2 IT Environment

The TOE communicates with servers and client PCs via LAN. The function of the TOE described in "4) Trusted Communication" works in cooperation with those IT devices and uses the following protocols:

- Client PC (Web browser): HTTP over TLS
- Client PC (Printer driver): IPP over TLS
- Audit Server: Syslog over TLS
- Mail Server: SMTP over TLS

6. Documentation

The identification of the guidance documents of the TOE is listed in Table 6-1. TOE users are required to fully understand and comply with the following documents in order to satisfy the assumptions.

Table 6-1 Guidance (English)

| Name | Version |
|---|--|
| Reference Guide Apeos C4030 Apeos C3530 | GM1643E5-2 Edition 1 |
| Apeos C4030 Apeos C3530 ApeosPrint C4030 ApeosPrint C3530 User's Manual | FD1192E5-3 Edition 1 |
| Apeos C4030 Apeos C3530 Security Function Supplementary Guide | GM1979E5-1 _20240708 (Edition 1) |

7. Evaluation conducted by Evaluation Facility and Results

7.1 Evaluation Facility

Information Technology Security Center, Evaluation Department that conducted the evaluation as the Evaluation Facility is approved under JISEC and is accredited by NITE (National Institute of Technology and Evaluation), the Accreditation Body, which joins Mutual Recognition Arrangement of ILAC (International Laboratory Accreditation Cooperation). It is periodically confirmed that the above Evaluation Facility meets the requirements on the appropriateness of the management and evaluators for maintaining the quality of evaluation.

7.2 Evaluation Approach

The evaluation was conducted in accordance with the assurance requirements in the CC Part 3 required by the Conformance PP using the evaluation methods prescribed in the CEM and the assurance activities of the Conformance PP.

Details for evaluation activities were reported in the Evaluation Technical Report. The Evaluation Technical Report explains the summary of the TOE as well as the content of the evaluation and the verdict for each work unit in the CEM and assurance activity of the Conformance PP.

7.3 Overview of Evaluation Activity

The history of the evaluation conducted is described in the Evaluation Technical Report as follows.

The evaluation started in 2024-03 and concluded upon completion of the Evaluation Technical Report dated 2024-08. The Evaluation Facility received a full set of evaluation deliverables necessary for evaluation provided by the developer, and examined the evidence in relation to a series of evaluation conducted. Furthermore, the evaluator conducted the evaluator testing at the developer site in 2024-06.

Concerns found in evaluation activities were issued as the Observation Reports, and reported to the developer. Those concerns were reviewed by the developer, and all the concerns were resolved eventually.

Concerns in the evaluation process that the Certification Body found were described as the certification oversight reviews and sent to the Evaluation Facility. After the Evaluation Facility and the developer examined the concerns, those were reflected in the Evaluation Technical Report.

7.4 IT Product Testing

As the verification results of the evidence shown in the evaluation process, the evaluator performed the evaluator independent testing to ensure that the security functions of the product are accurately implemented, and the evaluator penetration testing based on vulnerability assessments.

7.4.1 Developer Testing

The developer testing is not included in the assurance requirements for this evaluation.

7.4.2 Evaluator Independent Testing

The evaluator performed the evaluator independent testing (hereinafter referred to as the "independent testing") based on the evidence shown in the evaluation process to ensure that the security functions of the product are accurately implemented. The independent testing performed by the evaluator is described below.

1) Independent Testing Environment

The environment for the independent testing is based on the operational environment of the TOE shown in Figure 4-1. The components used in the independent testing environment are listed in Table 7-1.

Table 7-1 Components for the Independent Testing Environment

| Components | Description |
|--|--|
| TOE | FUJIFILM Apeos C4030 model with Copy, Print, Fax, Scan and Overwrite Storage Version: Controller ROM Ver. 21.26.12 FUJIFILM Apeos C3530 model with Copy, Print, Fax, Scan and Overwrite Storage Version: Controller ROM Ver. 21.26.12 |
| Client PC (General User Client) | - OS: Microsoft Windows 10, Microsoft Windows 11 - Web browser: Microsoft Edge 125.0.2535.67, FireFox 126.0 - Printer Driver: PCL6 Print Driver Version 7.0.0 |
| Client PC (System Administrator Client) | - OS: Microsoft Windows 10, Microsoft Windows 11 - Web browser: Microsoft Edge 125.0.2535.67, FireFox 126.0 |
| Mail Server | - OS: Cent OS 7.9.2009 - Postfix version 2.10.1 |
| Audit Server | - OS: Cent OS 7.9.2009 - rsyslog 8.24.0 |

The TOE items tested by the evaluator are all the models of the TOE.

There are following differences between the configuration of the independent testing and

the TOE configuration identified in the ST. The evaluator determined that there are no problems with those differences and that the security functions of the TOE configuration identified in the ST can be considered properly tested.

(1) Using a modified firmware for testing

In the independent testing, a firmware modified for testing was used to verify the encryption functions instead of the firmware of the TOE. The evaluator determined that the testing on the modified firmware is valid because its modules of the encryption functions are the same as that of the TOE, and the modification for testing does not affect the encryption functions.

(2) Using additional testing tools

In the independent testing, some testing tools were used to confirm and alter the communication data and to confirm the data written in the hard disk drive. The validity of those testing tools was confirmed by the evaluator.

2) Summary of the Independent Testing

A summary of the independent testing performed by the evaluator is described below.

a. Viewpoints of the Independent Testing

Viewpoints of the independent testing devised by the evaluator based on the requirements of the Conformance PP and on the provided evaluation documentation are as follows.

<Viewpoints of the Independent Testing>

- (1) Confirm security functions for each Security Functional Requirement (SFR).
- (2) Confirm that the implementation of the cryptographic algorithms is correct.

b. Independent Testing Outline

An outline of the independent testing performed by the evaluator is as follows.

<Independent Testing Approach>

The behavior of the TOE for inputs using the control panel of the TOE, the client PC, the audit server and the testing tools was confirmed by following means:

- If the behavior can be confirmed from the external interfaces of the TOE, the external interfaces of the TOE are used.
- If the behavior cannot be confirmed from the external interfaces of the TOE, the developer interface of the TOE, the analyzer for the hard disk drive in the TOE and the firmware for testing are used.

<Content of the Performed Independent Testing>

The evaluator performed the independent testing of 20 items.

Table 7-2 shows contents of the independent testing corresponding to the viewpoints.

Table 7-2 Performed Independent Testing

| Viewpoint | Outline of the Independent Testing |
|-----------|--|
| (1) | <p><Confirmation of security functions> Confirm that all security functions work as the specification with the test items created based on the assurance activities of the Conformance PP for each SFR or the requirements of the SFR.</p> |
| (2) | <p><Confirmation of implementation of cryptographic algorithms> Confirm the following cryptographic algorithms are implemented as the specification.</p> <ul style="list-style-type: none"> - RSA (key generation, signature generation/verification) - ECDSA (key generation, signature generation/verification) - AES-CBC-128, AES-CBC-256, AES-GCM-128, AES-GCM-256 - SHA-1, SHA-256, SHA-384, SHA-512 - HMAC-SHA-1, HMAC-SHA-256, HMAC-SHA-384 - CTR_DRBG (AES) |

c. Result

All the independent testing performed by the evaluator was correctly completed, and the evaluator confirmed the behavior of the TOE. The evaluator confirmed consistencies between the expected behavior and all the test results.

7.4.3 Evaluator Penetration Testing

The evaluator devised and performed the evaluator penetration testing (hereinafter referred to as the "penetration testing") on the potentially exploitable vulnerabilities of concern under the assumed environment of use and attack level from the evidence shown in the process of the evaluation. The penetration testing performed by the evaluator is described below.

1) Summary of the Penetration Testing

A summary of the penetration testing performed by the evaluator is as follows.

a. Vulnerability of Concern

The evaluator searched into the provided documentation and the publicly available information for the potential vulnerabilities, and then identified the following vulnerabilities which require the penetration testing.

- (1) There is a concern that unintended network ports of the TOE may be open, and known vulnerabilities may exist in the network services running on the TOE.
- (2) There is a concern that known vulnerabilities may exist in the Web interface of the TOE.
- (3) There is a concern that known vulnerabilities may exist in the print processing of the TOE.

(4) There is a concern that the identification and authentication function may be bypassed by the malicious input from the control panel of the TOE, printer driver or Web interface.

(5) There is a concern that USB ports of the TOE may be exploited.

b. Penetration Testing Outline

The evaluator performed the following penetration testing to identify potentially exploitable vulnerabilities.

<Penetration Testing Environment>

The penetration testing was performed in the same environment as that of the evaluator independent testing, except for the additional PC with tools for penetration testing. Table 7-3 shows the tools used in the penetration testing.

Table 7-3 Penetration Testing Tools

| Name | Outline and Purpose of Use |
|------------------------------------|---|
| Nmap Version 7.93 | A tool to detect available network service ports. |
| Nessus Version 10.5.5 | A tool to detect known vulnerabilities at network ports. |
| OWASP ZAP Version 2.14.0 | A tool to detect known vulnerabilities at Web application. |
| Fiddler Version 5.0.20211.51073 | The tool is used to refer to and alter the communication data between Web browser and Web server (TOE). |
| PRET Version 0.40 | A tool to inspect various vulnerabilities in a printing processing. |

<Content of the Performed Penetration Testing>

Table 7-4 shows contents of the penetration testing corresponding to the vulnerabilities of concern.

Table 7-4 Outline of the Penetration Testing

| Vulnerability | Penetration Testing Outline |
|---------------|--|
| (1) | <ul style="list-style-type: none"> - Confirm that unexpected network ports of the TOE are not open using Nmap. - Confirm that there are no known vulnerabilities in the network services running on the TOE using Nessus. |
| (2) | <ul style="list-style-type: none"> - Confirm that there are no known vulnerabilities in the Web interface of the TOE using OWASP ZAP. - Confirm that the identification and authentication function and the access control function cannot be bypassed even if the data from Web browser to the TOE are altered using Fiddler. |

| | |
|-----|---|
| (3) | - Confirm that there are no known vulnerabilities in print processing of the TOE using PRET. |
| (4) | - Confirm that unexpected behaviour is not observed even if the character strings that may cause buffer overflow or unauthorised processing are input for the user ID or password in the control panel, printer driver and Web interfaces of the TOE. |
| (5) | - Confirm that the USB port of the TOE cannot be used using the PC for the penetration testing and bootable USB flash drive. |

c. Result

In the penetration testing performed by the evaluator, the evaluator did not find any exploitable vulnerabilities that attackers who have the assumed attack potential could exploit.

7.5 Evaluated Configuration

The conditions of the TOE configuration, that are prerequisites for this evaluation, are as described in the guidance documents listed in Chapter 6. In order to use the TOE securely as ensured by the evaluation, the TOE must be set as described in the guidance documents. Different settings are not subject to assurance by this evaluation.

7.6 Evaluation Results

The evaluator had concluded that the TOE satisfies all work units prescribed in the CEM and all assurance activities in the Conformance PP as per the Evaluation Technical Report.

In the evaluation, the following were confirmed.

- PP Conformance:

 - Protection Profile for Hardcopy Devices 1.0 dated September 10, 2015

 - Protection Profile for Hardcopy Devices - v1.0 Errata #1, June 2017

 - Guideline for Certification Application with HCD-PP Conformance [16]

 - Treatment regarding FCS_RBG_EXT.1 Test

 - Treatment regarding FCS_TLS_EXT.1.1 Test

- Security functional requirements: Common Criteria Part 2 Extended

- Security assurance requirements: Common Criteria Part 3 Conformant

As a result of the evaluation, the verdict "PASS" was confirmed for the following assurance components required by the Conformance PP.

ASE_INT.1, ASE_CCL.1, ASE_SPD.1, ASE_OBJ.1, ASE_ECD.1,
ASE_REQ.1, ASE_TSS.1, ADV_FSP.1, AGD_OPE.1, AGD_PRE.1,
ALC_CMC.1, ALC_CMS.1, ATE_IND.1, AVA_VAN.1

The result of the evaluation is only applied to those which are composed by the TOE corresponding to the identification described in the Chapter 2.

7.7 Evaluator Comments/Recommendations

There is no evaluator recommendation to be addressed to procurement entities.

8. Certification

The Certification Body performed the certification from the following viewpoints based on the materials submitted by the Evaluation Facility during the evaluation process.

1. Contents pointed out in the Observation Reports shall be adequate.
2. Contents pointed out in the Observation Reports shall properly be solved.
3. The submitted documentation was sampled, the content was examined, and the related work units in the CEM and assurance activities of the Conformance PP shall be evaluated as presented in the Evaluation Technical Report.
4. Rationale of the evaluation verdict by the evaluator presented in the Evaluation Technical Report shall be adequate.
5. The evaluator's evaluation methodology presented in the Evaluation Technical Report shall conform to the CEM and the assurance activities of the Conformance PP.

Concerns found in the certification process were prepared as the certification oversight reviews, and those were sent to the Evaluation Facility. The Certification Body confirmed such concerns pointed out in the certification oversight reviews were solved in the ST and the Evaluation Technical Report and issued this Certification Report.

8.1 Certification Result

As a result of verification of the Evaluation Technical Report, Observation Reports and related evaluation documentation submitted by the Evaluation Facility, the Certification Body determined that the TOE evaluation satisfies the assurance requirements required by the Conformance PP.

8.2 Recommendations

Procurement entities who are interested in the TOE are advised to refer "4.2 Environmental Assumptions" and "7.5 Evaluated Configuration" to make sure the scope of the evaluation and the operational requirements of the TOE meet the operational conditions assumed by each user.

9. Annexes

There is no annex.

10. Security Target

Security Target [12] of the TOE is provided as a separate document from this Certification Report.

| | |
|-------------------|---|
| Title: | FUJIFILM Apeos C4030 / C3530 models with Copy, Print, Fax, Scan and Overwrite Storage Security Target (for Europe, America, Middle East, Africa, South Asia) |
| Version: | V 1.03 |
| Publication Date: | July 8, 2024 |
| Author: | FUJIFILM Business Innovation Corp. |

11. Glossary

The abbreviations relating to the CC used in this report are listed below.

| | |
|-----|---|
| CC | Common Criteria for Information Technology Security Evaluation |
| CEM | Common Methodology for Information Technology Security Evaluation |
| PP | Protection Profile |
| SFR | Security Functional Requirement |
| ST | Security Target |
| TOE | Target of Evaluation |
| TSF | TOE Security Functionality |

The abbreviations relating to the TOE used in this report are listed below.

| | |
|------|-----------------------------------|
| MFD | Multi-Function Device |
| PSTN | Public Switched Telephone Network |

The abbreviations relating to information technology used in this report are listed below.

| | |
|----------|--|
| AES | Advanced Encryption Standard |
| CBC | Cipher Block Chaining |
| CTR_DRBG | Counter (CTR) mode block cipher algorithm DRBG |
| DRBG | Deterministic Random Bit Generator |
| ECDSA | Elliptic Curve Digital Signature Algorithm |
| GCM | Galois/Counter Mode |
| HMAC | Keyed-Hash Message Authentication Code |
| HTTP | Hypertext Transfer Protocol |
| IPP | Internet Printing Protocol |
| RSA | Rivest Shamir Adleman |
| SHA | Secure Hash Algorithm |
| SMTP | Simple Mail Transfer Protocol |
| TLS | Transport Layer Security |

The definitions of terms used in this report are listed below.

| | |
|---|--|
| Copy Function | A function to scan paper documents by operating the control panel and duplicate them. |
| Document storage and retrieval Function | A function to store user document data in the MFD and retrieve them. Document storage functionality is to store user document data scanned by "Scan function" or received by "Fax receive function". Document retrieval functionality is to print out stored user document data by operating control panel of the MFD or download them by operating the Web browser of a user client. |
| Fax Function (fax send, fax receive) | A function to send and receive fax data via Public Switched Telephone Network. Fax send functionality is to scan paper documents by operating the control panel and send the scanned user document data using the standard fax protocol. Fax receive functionality is to receive user document data using the standard fax protocol and store them with "Document storage and retrieval function". |
| Print Function | A function to receive user document data from the printer driver of a user client, and then print out them by operating the control panel of the MFD. |
| Scan Function | A function to scan paper documents by operating the control panel and send the scanned user document data to a mail server or store them with "Document storage and retrieval function". |
| Assurance Activity | Evaluation work to be performed by an evaluator in order to conform to a PP. It is a supplement of the CEM. In the case of the Conformance PP [14], it is described in the Conformance PP. |

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- [15] Protection Profile for Hardcopy Devices - v1.0 Errata #1, June 2017
- [16] Guideline for Certification Application with HCD-PP Conformance, Version 1.9, March 13, 2024, Information-technology Promotion Agency, Japan, JISEC-CERT-2024-A19